

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Eleutherococcus senticosus*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	2,6-DIMETHOXY-P-BENZOQUINONE	Stem Bark	--	5.5		
3	3,4-DIHYDROXYBENZOIC-ACID	Root	--	--		
3	3,4-DIHYDROXYBENZOIC-ACID	Bark	--	313.3		
1	ACANTHOSIDE-D	Root	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
32	ALPHA-TOCOPHEROL	Root	--	--		
8	AMYGDALIN	Rhizome	--	--		
112	ASCORBIC-ACID	Root	42	200	-0.5316446846418599	
53	BETA-CAROTENE	Root	6	30	-0.24459504584619188	
1	BETA-HEDERIN	Root	--	--		
47	BETA-SITOSTEROL	Root Bark	--	--		
47	BETA-SITOSTEROL	Root	--	--		
22	BETULINIC-ACID	Rhizome	--	--		
102	CAFFEIC-ACID	Root	--	--		
28	CALCIUM	Root	840	4000	-0.3726684764630539	
77	CHLOROGENIC-ACID	Stem Bark	--	77.1		
77	CHLOROGENIC-ACID	Root	1000	6045	0.4924993995792986	
77	CHLOROGENIC-ACID	Tissue Culture	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
24	CHROMIUM	Root	--	--		
1	CIWUJIANOSIDE-C-1	Leaf	--	300		
1	CIWUJIANOSIDE-C-1	Root	--	--		
1	CIWUJIANOSIDE-D-1	Leaf	--	200		
1	CIWUJIANOSIDE-D-1	Root	--	--		
2	COBALT	Root	--	--		
2	CONIFERIN	Root	--	83.3		
2	CONIFERIN	Stem Bark	--	--		
6	CONIFERYL-ALCOHOL	Root	--	--		
5	CONIFERYL-ALDEHYDE	Root	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . <i>Nippon Gogeikagaku Kaishi</i> 61(9): 1119-1122.
12	COPPER	Leaf	--	--		
12	COPPER	Flower	--	--		
12	COPPER	Stem	--	--		
12	COPPER	Root	--	--		
1	D-GLUCOSE	Root	--	--		Abstract (See species file)
5	DAUCOSTEROL	Root	--	2100	2.3882043775879427	
2	ELEUTHEROSIDE-B	Root	985	5000		
1	ELEUTHEROSIDE-B-1	Stem	--	--		

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1	ELEUTHEROSIDE-B-1	Stem Bark	--	23.3		
1	ELEUTHEROSIDE-B-1	Root	1	1.1		
1	ELEUTHEROSIDE-B-1	Tissue Culture	--	3000		
1	ELEUTHEROSIDE-C	Root	--	4000		
1	ELEUTHEROSIDE-D	Tissue Culture	--	--		
1	ELEUTHEROSIDE-D	Root	--	800		
1	ELEUTHEROSIDE-D	Stem Bark	--	--		
2	ELEUTHEROSIDE-E	Root	1000	1000		
6	ELEUTHEROSIDES	Root	6000	9000		
6	ELEUTHEROSIDES	Stem	6000	15000		
13	FALCARINDIOL	Root	--	--		
61	FERULIC-ACID	Root	--	--		
2	FRIEDELIN	Root	--	--		
1	GALACTOSE	Root	--	--		
7	GLUCOSE	Root	--	--		
6	IRON	Root	2.5	12	-0.42421971919788043	
5	ISOFRAXIDIN	Root	--	40	-1	
5	ISOFRAXIDIN	Tissue Culture	--	--		
5	ISOFRAXIDIN	Stem Bark	--	21.6		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	LIGNANS	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
4	LIRIODENDRIN	Root	116.6	2800		
4	LIRIODENDRIN	Tissue Culture	--	--		
65	MAGNESIUM	Root	1050	5000	1.297512854456367	
14	MANGANESE	Root	0.6	3	-0.5100505761569326	
1	METHYL-ALPHA-D-GALACTOSIDE	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
39	NIACIN	Root	15	72	0.6306869414315236	
64	OLEANOLIC-ACID	Leaf	--	--		
64	OLEANOLIC-ACID	Root	--	84	-0.6809540909763485	
25	P-COUMARIC-ACID	Root	--	--		
13	P-HYDROXY-BENZOIC-ACID	Root	--	--		
24	PECTIN	Root	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	PHOSPHORUS	Root	1470	7000	0.6118650125540502	
2	PHYTOSTEROLS	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
14	POTASSIUM	Root	2100	10000	-0.42314232638420207	

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43	PROTOCATECHUIC-ACID	Stem Bark	--	--		
15	RIBOFLAVIN	Root	0.5	2.4	-0.3664612276506602	
5	SAPONINS	Plant	--	--		
44	SCOPOLETIN	Stem Bark	--	--		
60	SELENIUM	Root	0.2	1	-0.29131634494743897	
15	SESAMIN	Root	--	230		
4	SILICON	Root	--	--		
1	SINAPYLALCOHOL	Root	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . <i>Nippon Gogeikagaku Kaishi</i> 61(9): 1119-1122.
1	SODIUM	Root	21	99	-0.46667660193674004	
8	STEARIC-ACID	Rhizome	--	--		
14	SUCROSE	Root	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . <i>Nippon Gogeikagaku Kaishi</i> 61(9): 1119-1122.
1	SYRINGARESINOL	Root	--	--		
2	SYRINGARESINOL-DI-O-GLUCOSIDE	Root	--	1300		
1	SYRINGARESINOL-GLUCOSIDE	Root	--	790		
6	SYRINGIC-ACID	Root	--	--		
9	SYRINGIN	Stem Bark	--	24		
9	SYRINGIN	Root	40	4000		

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9	SYRINGIN	Tissue Culture	--	--		
9	SYRINGIN	Stem	--	--		
9	SYRINGIN	Root Bark	--	1370		
24	VANILLIC-ACID	Root	--	--		
28	VANILLIN	Root	--	--		
75	VITAMIN-E	Root	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of <i>Glycyrrhiza-glabra</i> . Nippon Gogeikagaku Kaishi 61(9): 1119-1122.
77	ZINC	Root	0.9	4.2	-0.8749958361247925	